

GILA RIVER BASIN

09447000 EAGLE CREEK ABOVE PUMPING PLANT, NEAR MORENCI, AZ

LOCATION--Lat 33°03'52", long 109°26'30", in SW_{1/4}SE_{1/4} sec. 23, T.4 S., R.28 E., Greenlee County, Hydrologic Unit 15040005, on right bank 2 mi upstream from Phelps Dodge Corp. pumping plant, 5 mi west of Morenci, and 12 mi upstream from mouth.

DRAINAGE AREA--622 mi².

PERIOD OF RECORD--Apr. 1944 to current year.

REVISED RECORDS--WSP 1850-C: 1966. WDR AZ-88-1: Drainage area.

GAGE--Water-stage recorder. Datum of gage is 3,673.5 ft above sea level. Oct. 25, 1984, to Mar. 6, 1986, at site 1 mi upstream at datum 24.1 ft higher. Prior to Oct. 25, 1984, at various sites within 1 mi upstream from present site at different datums. Aug. 23, 1950, to Aug. 1, 1981, and since Mar. 6, 1984, supplementary gages at various sites within 1 mi upstream from present site at different datums. Feb. 7, 1993, to July 2, 1993, on right bank at different datum.

REMARKS--Records good, except estimated daily discharges, which are poor. Diversions above station for irrigation of about 500 acres, mostly above Willow Creek. Water from Black River was pumped into Eagle Creek basin, 52 mi upstream from this station, and water was pumped from wells into Eagle Creek near Double Circle Ranch below Willow Creek. The monthly quantities pumped are shown in the table below. Diversion by pumping for industrial and municipal use in and near Morenci and Clifton are made from Eagle Creek, 3 mi downstream from this station and from San Francisco River near Clifton. Monthly quantities diverted are shown in the table below.

AVERAGE DISCHARGE (unadjusted)--58 years, 67.5 ft³/s, 48,870 acre-ft/yr; median of yearly mean discharges, 38 ft³/s, 27,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 36,800 ft³/s Jan. 18, 1993, on basis of slope-area measurement; minimum, 2.9 ft³/s June 25, 1982.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 800 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 17	1845	*638	*4.55

Minimum daily discharge, 14 ft³/s, July 17; Sept. 21, 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	24	20	22	25	77	72	29	e26	21	22	27
2	19	20	20	21	25	76	66	29	e23	19	22	25
3	18	19	23	21	24	77	62	30	e21	17	20	23
4	17	19	21	20	23	83	59	31	e21	18	17	22
5	17	19	18	20	24	145	56	32	e20	19	17	22
6	17	19	17	20	23	182	52	32	e19	19	19	24
7	33	18	16	22	23	168	50	32	21	18	21	25
8	43	20	17	27	27	169	45	32	23	19	17	25
9	32	21	18	28	29	172	42	32	23	19	17	26
10	24	21	18	26	26	170	42	31	24	19	17	33
11	20	21	18	26	25	167	42	33	23	19	19	34
12	19	19	25	25	167	41	31	22	24	19	25	
13	19	20	19	24	31	156	41	31	22	29	19	18
14	19	20	19	24	41	141	41	31	22	30	24	19
15	19	20	19	24	52	129	41	30	22	24	26	19
16	19	20	19	24	44	119	41	30	21	17	24	18
17	19	21	24	39	247	41	29	23	14	21	19	
18	22	17	24	23	33	312	40	30	24	18	29	18
19	33	18	23	23	27	227	40	29	24	20	27	16
20	30	18	22	23	22	218	40	30	22	21	24	15
21	22	18	24	25	19	179	39	30	21	24	25	14
22	22	17	20	26	17	159	38	30	22	26	21	14
23	21	17	25	25	16	151	37	30	22	22	19	15
24	21	18	27	26	16	152	36	29	22	18	19	16
25	24	18	26	25	15	143	36	28	22	20	20	18
26	27	18	23	25	24	124	35	28	21	19	20	18
27	23	19	20	25	45	108	34	29	23	23	22	17
28	23	19	19	25	60	98	33	30	26	21	23	17
29	22	18	20	25	---	90	32	25	24	20	27	15
30	22	19	22	25	---	83	33	21	22	19	32	15
31	22	---	23	25	---	77	---	27	---	22	30	---
TOTAL	705	573	640	744	800	4566	1307	921	671	638	679	612
MEAN	22.7	19.1	20.6	24.0	28.6	147	43.6	29.7	22.4	20.6	21.9	20.4
MAX	43	24	27	28	60	312	72	33	26	30	32	34
MIN	17	17	16	20	15	76	32	21	19	14	17	14
AC-FT	1400	1140	1270	1480	1590	9060	2590	1830	1330	1270	1350	1210
CFSM	0.04	0.03	0.03	0.04	0.05	0.24	0.07	0.05	0.04	0.03	0.04	0.03
IN.	0.04	0.03	0.04	0.04	0.05	0.27	0.08	0.06	0.04	0.04	0.04	0.04
(*)	170	243	235	347	116	0	377	605	1009	1110	1182	971
(**)	806	761	816	1086	842	903	1102	1161	1112	1428	1486	697

CAL YR 2002 TOTAL 8542 MEAN 23.36 MAX 260 MIN 15 AC-FT 16900 CFSM .04 IN .49
WTR YR 2003 TOTAL 12856 MEAN 35.05 MAX 312 MIN 14 AC-FT 25500 CFSM .06 IN .77

e Estimated

(*) Pumpage, in acre-feet, into Eagle Creek from Eagle Creek wells.

(**) Pumpage, in acre-feet, into Clifton-Morenci, from San Francisco River and Eagle Creek